



# Annual Report 2009

# ICSU ROAP Vision

The long-term ICSU vision is for a world where science is used for the benefit of all, excellence in science is valued and scientific knowledge is effectively linked to policy-making. In such a world, universal and equitable access to high quality scientific data and information is a reality and all countries have the scientific capacity to use these and to contribute to generating the new knowledge that is necessary to establish their own development pathways in a sustainable manner.



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# Message from the Director

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The activities described in this annual report reflect our collective efforts to consolidate the work of ICSU in Asia and the Pacific. Planning for the three priority areas of ICSU ROAP has been completed. The 3<sup>rd</sup> Regional Consultation held at the end of the year provided practical plans for their implementation in the coming years. Opportunities for collaborative work are being explored. Key among these will be with the newly established ICSU programme on Integrated Research on Disaster Risks (IRDR) that is based at the Centre for Earth Observation and Digital Earth (CEODE), Chinese Academy of Sciences (CAS).

The Regional Committee for Asia and the Pacific (RCAP) elected Professor Bruce McKellar as its new Chair beginning in April 2009. Three other new members were appointed and with these changes, the participation of ICSU members in the region can be expected to increase. Already the RCAP members are engaged in the development of the expertise database for Asia and the Pacific, and in exploring ways and means of engaging with the scientific communities in the countries in central Asia.

The inception of the ICSU Officers' Meeting in Budapest in October marked the beginning of much closer policy coordination between the Secretariat and the Regional Offices. The meeting also formalized the exchange of information and know-how between the regional offices that will bode well for the growth of ICSU at the global scale. In the region ICSU ROAP is representing the Secretariat in planning two major international meetings in 2010 and 2011. The first is the International Conference on Research Integrity that will be held in Singapore, and the second is the 22<sup>nd</sup> Pacific Science Congress that will be held in Kuala Lumpur. The opportunities for growth and development of science in the region from these meetings are unequivocal.

We will continue to pursue in the coming years the vision of ICSU for a world where science is used for the benefit of all, excellence in science is highly valued, and scientific knowledge is closely linked to policy-making.

**Mohd Nordin Hasan**

Director, ICSU Regional Office for Asia and the Pacific

March 2010

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# Message from the Chairman

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The region of Asia and the Pacific, in which the ICSU Regional Office is charged with promoting and facilitating the ICSU vision of a world in which science is used to the benefit of all, is the part of the world with the fastest growth of scientific research. In many of its countries, science is being used to improve the life of the people — famine is no longer as prevalent as it was, science based industries are improving economies. Our challenge is to ensure that, as scientific activity in the region grows, our scientists maintain a focus on the society which supports them, and on the regional and global benefits which derive from their work. We also must help our scientists find yet more ways to co-operate with their colleagues in Asia and the Pacific.

The natural disasters which occurred across the region in 2009 highlighted the fact that the ICSU ROAP science plan for Hazards and Disasters is timely, but that it needs to be carried forward and implemented. The Science Plan for Sustainable Energy is equally timely, because we must find the energy to bring the half of the world's people that live in the region to the improved standard of living they aspire to in a sustainable way. The growing population and its growing demands for resources are putting more and more pressure on the environment. The non-human and human ecosystems are intimately connected and the health of one depends on the health of the other. We are beginning to work with the ICSU Program for Ecosystem Change and Society to improve the understanding of this link in our region.

In these programs we are beginning to move from the science planning phase to the action planning phase. The third regional consultation meeting in October and the November meeting of the RCAP decided to emphasize mapping the work which is going on in the region on our priority areas, to put us in a position to facilitate the implementation of the plan. That mapping is a major task for 2010.

Professor M. Shamsheer Ali, Dr Mustafa Baghirov, Professor Jennifer Graves, Professor Derek Gardiner, Professor Fu Cong-bin, and Professor Anupam Varma (the first Chair of RCAP), all retired from the Regional Committee for Asia and the Pacific. We thank them for their work in guiding the committee through its formative years. They provided a good base on which we can build for the future.

**Bruce H J McKellar**

Chair, ICSU Regional Committee for Asia and the Pacific

March 2010

# Calendar 2009

PLACE/DATE	ACTIVITY
<b>14 January</b> Kuala Lumpur, Malaysia	Visit by President and Director, Max Planck Institute, and President of IUPAP
<b>25 – 28 February</b> Bangkok, Thailand	Cities at Risk Workshop: Building Adaptive Capacity For Managing Climate Change in Asia's Coastal Megacities Chulalongkorn University - Bangkok, Thailand Montien Hotel – Bangkok, Thailand
<b>18 – 20 March</b> Kuala Lumpur, Malaysia	Asia Pacific Network for Global Change Research (APN) Inter-Governmental Meeting and Scientific Planning Group Meeting
<b>23 – 27 March</b> Nanchang, China	China Council on International Cooperation on Environment and development (CCICED) 2 <sup>nd</sup> Workshop of Task Force on Ecosystem Services and Management Strategies
<b>8 – 9 April</b> Kuala Lumpur, Malaysia	7 <sup>th</sup> Meeting ICSU Regional Committee for Asia and the Pacific
<b>19 April – 2 May</b> Singapore	IUTAM Spring School on Fluid Mechanics and Geophysics of Environmental Hazards
<b>20 – 21 July</b> Beijing, China	Monsoon Asia Integrated Research Study Scientific Committee Meeting, Institute for Atmospheric Physics, Chinese Academy of Sciences
<b>23 – 25 July</b> Changchun, Jilin Province, China	International Workshop on Dryland Studies
<b>19 – 20 August</b> Bangkok, Thailand	Asia Pacific Network for Global Change Research (APN) Southeast Asia Sub-Regional Committee Meeting
<b>9 – 10 September</b> Beijing, China	6 <sup>th</sup> International Symposium on Digital Earth (ISDE)
<b>12 – 15 September</b> Ulaanbaator	APN-sponsored training workshop on Inter-Agency Collaborative Technologies in Earth Observations (EO) for Global Change Research in the Asia-Pacific

<b>1 – 3 October</b> Penang, Malaysia	Asia-Pacific Regional Workshop on the Satoyama Initiative Concept, UNU/USM/ICSU
<b>8 October</b> Kuala Lumpur, Malaysia	Discussion with Director, International Institute for Applied Systems Analysis, Vienna, Austria
<b>13 – 14 October</b> Penang, Malaysia	3 <sup>rd</sup> ICSU Regional Consultation
<b>15 October</b> Putrajaya, Malaysia	Ministerial Briefing: Deputy Minister of Science, Technology and Innovation with Deliang Chen and Patricia Ocampo-Thomason
<b>22 October</b> Kuala Lumpur, Malaysia	Global Water Partnership, ASM Forum, Open University Malaysia
<b>3 November</b> Budapest, Hungary	Meeting of Officers of ICSU and Regional Directors and Chairs Hungarian Academy of Sciences, Budapest
<b>4-7 November</b> Budapest, Hungary	World Conference on Science + 10 Hungarian Academy of Sciences, Budapest
<b>15 – 21 November</b> Bangkok and Nakhon Si Thammarat, Thailand	China Council on International Cooperation on Environment and Development (CCICED), Task Force on Ecosystem Services and Management 3 <sup>rd</sup> Workshop and Field Case Study
<b>25 – 28 November</b> Hayama, Japan	8 <sup>th</sup> Meeting ICSU Regional Committee for Asia and the Pacific

# Planning & Coordinating Research

3<sup>rd</sup> ICSU Regional Consultation for Asia and the Pacific

Natural and human-induced environment hazards and disasters

- Spring School on Fluid Mechanics and Geophysics of Environmental Hazards

Ecosystem

- ICSU Small Grant Programme for WRCP – WMO/START

Sustainable Energy

- Science Planning Group & SE Report

Officers Meeting, Budapest Hungary



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## 3rd ICSU Regional Consultation for Asia and the Pacific

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The International Council for Science (ICSU), Regional Office for Asia and the Pacific (ROAP) organized the 3<sup>rd</sup> ICSU Regional Consultation in Asia and the Pacific in Penang, Malaysia, on 13 and 14 October 2009. This biennial event was hosted by the Centre for Global Sustainability Studies (CGSS) of Universiti Sains Malaysia (USM). Leading scientists from around the world gathered to discuss how science can contribute to address some of the most pressing challenges facing society today, including: hazards and disasters; ecosystem change; sustainable energy and climate change. The event was launched by the Honorable Deputy Minister of Science, Technology and Innovation of Malaysia YB Tuan Haji Fadillah Hj Yusof. The ICSU Regional Consultation also examined the experiences of Africa, and of Latin America and the Caribbean in establishing ICSU offices at the regional level. Participation in this Consultation provides the members of ICSU (National Members, Scientific Unions, Interdisciplinary Bodies and Joint Initiatives, and ICSU Associate Members) with an excellent opportunity to interact, gain knowledge, and develop insights into priority areas of research in Asia and the Pacific with peers from all over the world.



# Natural & Human-Induced Environment Hazards & Disasters

## Spring School on Fluid Mechanics and Geophysics of Environmental Hazards

The Spring School on Fluid Mechanics and Geophysics of Environmental Hazards was held at the Institute of Mathematical Science, National University of Singapore on 19 April 2009 to 2 May 2009. It was organized jointly by two International Scientific Unions of ICSU i.e. IUTAM (the International Union of Theoretical and Applied Mechanics) and IUGG (the International Union of Geodesy and Geophysics). The School was supported also by ICSU's Regional Office for Asia and the Pacific. The Spring School contributed to work on ICSU's priority area on *Natural and Human-Induced Environmental Hazards and Disasters*.

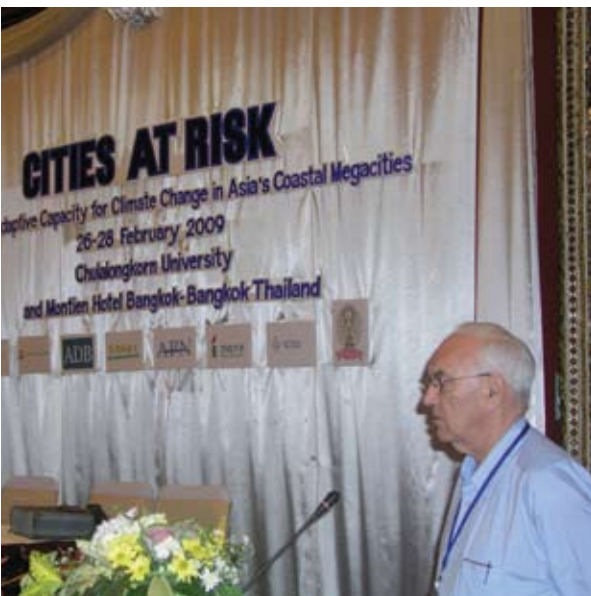
The program included lectures and practicals on mechanical fundamentals of geophysical fluid dynamics, and on geophysical hazard and risk in the atmosphere and ocean. It focused on four specific environmental hazards:

1. typhoons and tropical cyclones;
2. monsoons and flooding;
3. tsunamis;
4. pollution of atmosphere, ocean and the urban environment.

The objective of the School was to promote active and collaborative research among the participants. Its long-term objective is to initiate a network of young scientists in countries of Asia and the Pacific who will be committed to work in this interdisciplinary area. Graduates in mathematics, physics or engineering, and researchers who undertake research in this broad area participated in the program.



# Ecosystem



## ICSU Small Grant Programme for WRCP – WMO/START

The East West Center (EWC) and the global change SysTem for Analysis Research and Training (START), together with a number of partners including the World Climate Research Programme (WCRP), International Human Development Programme (IHDP), Urban Global Environmental Change (UGEC) programme, Land-Ocean Interactions in the Coastal Zone (LOICZ), and ICSU Regional Office for Asia and the Pacific (ROAP), with financial support from the Asia Pacific Network for Global Change Research (APN) and ICSU, collaborated to host a major workshop on *Cities at Risk: Building Adaptive Capacity for Climate Change in Asia's Coastal Megacities* on 26 to 28 February 2009 in Bangkok. It brought together scientists, urban planners and officials, and representatives of disaster management and development agencies to review scientific findings and projections

regarding climate-related risks (e.g., sea level rise, extreme climate events, intensification of storms and storm surges) for Asia's coastal megacities.

Workshop participants examined potential vulnerabilities and current coping mechanisms as well as means for improving networking and communication between urban planners/officials and the scientific community. Case studies from Dhaka (Bangladesh), Shanghai and Hong Kong / Shenzhen / Guangzhou (China), Mumbai and Calcutta (India), Jakarta (Indonesia), Karachi (Pakistan), Manila (Philippines), Bangkok (Thailand), and Ho Chi Minh City (Vietnam) provided examples that anchored discussions during the workshop.

Workshop participants worked to develop recommendations relating to future priorities for policy-relevant research and science-based capacity building to promote adaptation for climate change in Asia's coastal megacities.

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# Sustainable Energy

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## Science Plan

The science plan on sustainable energy was published in June 2009. It recognized that substantial effort is needed to enhance the use of sustainable sources of energy if we are to maintain present standards of living in the developed countries and improve those of the developing countries. New and emerging energy technologies can make a significant contribution to sustainable development in the Asia-Pacific region if investment patterns, intellectual effort and capacity building programmes are thoroughly planned for the short and long term.

This Plan identifies proposed areas of research and development that needs development to achieve increased benefits from the use of sustainable energy sources. The Regional Consultation suggested that work in Asia and the Pacific should focus on energy from wind, biomass, hydro, solar, and on the efficient conversion of waste to energy. Priority actions that were identified include resource mapping for expertise and energy sources in the region, research on advanced materials for energy generation, capacity building activities, enhancing public awareness and increasing the efficiency of energy generation and use.



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# Officers' Meeting, Budapest Hungary

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The Officers' Meeting is a newly constituted annual strategic coordination meeting of the ICSU Officers, the Regional Committee Chairs, the Regional Directors and the Executive Board liaisons to the Regional Committees. The primary goals of this annual meeting are to provide a stronger link and platform for discussion between ICSU and its regional offices to ensure better integration of regional and global priorities in developing and implementing the ICSU Strategic Plan. It would also provide a platform for exchange of experiences among Regional Offices.



The importance of the linking the activities of the Regional Offices to the ICSU Scientific Unions and the National Members, the positioning of the Regional Offices, the importance of engaging with young scientists in the regions, and mechanisms to get more and better nominations from the regions for ICSU activities and programmes were discussed.

The meeting agreed that it was important to ensure that the Regional Offices remain on a trajectory that kept them firmly embedded within the ICSU Strategic Plan. The Meeting also suggested some clear options for collaboration with the new IRDR programme. These were:

- The creation or consolidation of disaster risk data bases based on the registering of impacts and effects of past events at a high scale of spatial resolution (this included information on hazard, vulnerability and exposure variables). This perspective could involve the creation of data base platforms
- The creation of research training facilities based on multidisciplinary principles and that allow cross regional exchange and consolidation of research visions and methodologies. Exchange of perspectives and views, methodologies and approaches could be extremely useful and valid.
- The promotion of disaster risk reduction decision-making studies in cross cultural perspectives oriented around both problem and hazard oriented approaches.
- Implementation of cross continental post mortem studies based on clear criteria for comparative analysis. In such schemes it was considered highly probable that ICSU could play a role in brokering and stimulating activity based on already existing schemes that could be generalized across continents.

# Science for Policy

Policy Brief: Sustainable Energy

CCICED and a National Policy for the strategic management of ecosystem services in China

ICSU and IPBES



# Policy Brief: Sustainable Energy

ICSU ROAP published a policy brief on Sustainable Energy that was distributed to all ICSU National Members. The brief was also made available to participants of the 3<sup>rd</sup> ICSU Regional Consultation for Asia and the Pacific. The highlights published were derived from the ICSU ROAP Science Plan on Sustainable Energy. Its aim is to provide key information about sustainable energy to policy-makers.

The brief provided information about the status of energy use around the globe at present, sustainable energy sources and its management, how to advance sustainable energy use, and a likely way forward. It emphasized seven energy sources consisting of wind power, solar, geothermal, biomass, waste to energy, ocean energy and hydropower. The management suggested is through capacity building and efficient energy.



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# CCICED and a National Policy for the Strategic Management of Ecosystem Services in China

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The China Council for International Cooperation on Environment and Development (CCICED) Task Force on Ecosystem Service and Management Strategy was established in December 2008 to help demonstrate to policy and decision-makers the economic and social benefits of sustainable ecosystems management based on an ecosystem service approach. It will suggest science-based recommendations and policy options to integrate ecosystem services into development decision-making in China. The work of the Task Force is related to and will contribute to the work that needs to be undertaken by the new ICSU Programme on Ecosystem Change and Society. The task force held three internal working meetings, expert workshops, and stakeholder dialogues throughout 2009.



# ICSU and IPBES

The IUCN conducted a survey in collaboration with other partners, through which it seeks the perspectives of the scientific community and broader civil society on the need for IPBES - the Intergovernmental Platform on Biodiversity and Ecosystem Services. IPBES is a mechanism proposed to further strengthen the science-policy interface on biodiversity and ecosystem services. It aims to add to existing processes that aim at ensuring that decisions are made on the basis of the best available scientific information on conservation and sustainable use of biodiversity and ecosystem services. It is proposed as a broadly similar mechanism to the Intergovernmental Panel on Climate Change (IPCC). It builds on the outcomes of the IMoSEB consultations ([www.IMoSEB.net](http://www.IMoSEB.net)), undertaken during 2006-2007, and the follow-up activities to the Millennium Ecosystem Assessment ([www.millenniumassessment.org](http://www.millenniumassessment.org)), and aims to identify the perspectives of the community on the ongoing discussions relating to establishing an Intergovernmental Platform on Biodiversity and Ecosystem Services ([www.IPBES.net](http://www.IPBES.net)).



# Universality of Science

2<sup>nd</sup> World Conference on Research Integrity

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## 2<sup>nd</sup> World Conference on Research Integrity

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The Second World Conference on Research Integrity will be hosted by the Nanyang Technological University (NTU), the National University of Singapore (NUS), the Singapore Management University (SMU) and the Agency for Science, Technology and Research (A\*STAR), with the backing of the Ministry of Education (MoE) and the National Research Foundation (NRF). The Singapore Tourism Board is also providing a supporting grant for the event.

To date, additional support has been secured from the European Science Foundation, the US Office of Research Integrity, the Committee on Publication Ethics, the US National Science Foundation and the European Molecular Biology Organisation. In addition, the Conference is supported by the Japan Society for the Promotion of Science and the International Council for Science (ICSU) in respect of attendance by researchers and associates.

The Conference will explore research integrity issues in depth, demonstrate the global research community's commitment to the highest standards of behaviour in research, and develop the global networks and understandings needed to maintain public confidence in research in whatever field and wherever it is undertaken



# ICSU Governance and Policies

7<sup>th</sup> Meeting of ICSU ROAP RC

8<sup>th</sup> Meeting of ICSU ROAP RC

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## 7<sup>th</sup> Meeting of ICSU ROAP RC

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The 7<sup>th</sup> Meeting of ICSU ROAP Regional Committee for Asia and the Pacific (RCAP) was convened in Kuala Lumpur, Malaysia on 8 and 9 April 2009. Ten members attended the meeting. Along with Derek Gardiner, chair of the Science Planning Group on Sustainable Energy and an observer representing the National Member from Taiwan, Shaw Chen Liu.

The meeting unanimously elected Bruce McKellar as chair for the committee for the period 2009 to 2011.

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## 8<sup>th</sup> Meeting of ICSU ROAP RC

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The Science Council of Japan (SCJ) hosted the 8th Meeting of ICSU Regional Committee for Asia and the Pacific that was held in Hayama, Japan on 25 – 26 November 2009. All thirteen regional committee members attended the meeting. This included two new members, Professor Hong Kum Lee of Korea and Professor Dewi Fortuna Anwar of Indonesia. Members of the ICSU Regional Committees are leading scientists appointed to serve in their individual capacity. The regional committee members agreed on the progress and future activities of ICSU ROAP discussed

during the meeting. The importance of ICSU ROAP review was a highlight of discussions. This will take place in 2010. The budget for 2009 has been reviewed and the budget for year 2010 was approved.

# ICSU in Asia & the Pacific

New Chair of RCAP

New Members

Regional Committee for Asia & the Pacific

Secretariat

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## New Chair of RCAP

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**Bruce McKellar**

Professor Bruce McKellar is a theoretical physicist who primarily works on elementary particle physics and has a particular interest in neutrino physics and in the violation of matter-antimatter symmetries. His curiosity has led him to work in many other fields, including nuclear physics, remote sensing of atmospheric aerosols, cosmology, and particle production by high intensity lasers. He recently retired from the Professorship of Theoretical Physics at Melbourne University, a position he held for 36 years. He has been a Vice President of the Australian Academy of Sciences and of the International Union of Pure and Applied Physics, and was a Foreign Secretary of the Australian Academy of Science. He served on the Board of Trustees of the Asia Pacific Center for Theoretical Physics and on the Council of the Association of Asia Pacific Physical Societies for many years. His research has been recognised by the award of several medals, including the 2007 Massey Medal of the Institute of Physics (UK) and the Australian Institute of Physics, and the 2009 Flinders Medal of the Australian Academy of Science.

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## New Member

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ICSU ROAP welcomed three new Regional Committee Members for Asia and the Pacific. Professor Dewi Fortuna Anwar from Indonesia and Professor Hong Kum Lee of Korea, brings the gender balance in the RCAP, whilst, Professor Jaime Montoya brings a new perspective in ICSU ROAP with his expertise in health research.



**Dewi Fortuna ANWAR**

Professor Dewi Fortuna Anwar was C.V. Starr Distinguished Visiting Professor in Southeast Asian Studies at the SAIS (Johns Hopkins University) in Washington DC from January to May 2007. She is Director for Program and Research at The Habibie Center, Research Professor and Deputy Chairman for Social Sciences and Humanities at The Indonesian Institute of Sciences (LIPI), and member of the Board of Advisors of CIDES (Center for Information and Development Studies) in Jakarta, Indonesia. Dr Anwar briefly held the position of Assistant to the Vice President for Global Affairs (May-July 1998) and that of Assistant Minister/State Secretary for Foreign Affairs (August 1998-November 1999), during the Habibie administration. Dr Anwar had worked as a Research Fellow at the Institute of Southeast Asian Studies in Singapore (1989) and as a Congressional Fellow at the US Congress in Washington D.C. (1990-1991). Dr. Anwar is a member of the UN Secretary General's Advisory Board on Disarmament Matters, a Member of the International Council, the Asia Society, New York, a member of the Weapons of Mass Destruction Commission (WMDC), based in Stockholm, a member of the International Advisory Board of the Asia-Pacific College of Diplomacy, ANU, Australia and a Council Member of the International Institute for Strategic Studies IISS (London). She obtained her PhD from Monash University, Melbourne, Australia, while her BA (Hons) and MA were obtained from SOAS, University of London.





Ho Kum LEE

Dr. Lee is Principal Researcher of Korea Polar Research Institute (KOPRI) and works in the field of microbial diversity and marine biotechnology. She is a member of the European Society of Marine Biotechnology, Society for General Microbiology (UK), Korean Society of Microbiology, and the Korean Society of Biotechnology and Bioengineering. Since 2008, she is a member of a trustee of the Korean Federation of Science and Technology Societies and currently Vice-President of the Women Bioscience Forum in Korea. As Head of National Research Laboratory for Marine Microbial Diversity, she has worked on marine biofilm and biological control of harmful algal blooms. She has also published at least 80 scientific papers in international journals. Since May, 2007 she is the Director-General of KOPRI and active in international cooperation in polar science, especially environmental changes in polar regions. Moreover, as a national delegate for polar logistics and operation she is in charge of enhancing national and international polar research activities.



**Jaime C. Montoya**

Dr. Montoya is Professor in Infectious Disease at the University of the Philippines College of Medicine and currently the Executive Director of the Philippine Council for Health Research and Development. He is also currently the President of the National Research Council of the Philippines, Secretary of the Philippine College of Physicians and Vice-President of the Science Council of Asia. He is a highly trained infectious disease specialist and public health expert certified by both the Royal College of Physicians, London, U.K. and the Philippine Board of Internal Medicine and Infectious Disease specialty. He is the recipient of over 20 prestigious professional awards in the fields of medical research, education, medical writing, medical society leadership and community service including Outstanding Young Scientist of the Philippines, 1998 awarded by the National Academy of Science and Technology, Distinguished Physician Researcher awarded by the Philippine College of Physicians in 2001, Ten Outstanding Young Men of the Philippines, 2001 and conferment of the rank of National Academician in 2008 by the National Academy of Science and Technology. He has also published at least 30 scientific papers in peer-reviewed local and international journals. He is the Founding President of the Philippine Alliance for the Prevention and Control of Infectious Diseases and Past President of the Philippine Society for Microbiology and Infectious Disease, Philippine Hospital Infection Control Society, Alliance for the Prudent Use of Antibiotics and the Philippine Coalition Against Tuberculosis.

# Regional Committee for Asia and the Pacific



**Bruce H J McKellar**  
Honorary Professorial Fellow  
University of Melbourne  
Vic , Australia 3010  
Office Phone : +61 3 8344 5122  
Office fax: +61 3 8344 5449  
Mobile : + 61 4 1110 4608  
Email: bhjm@unimelb.edu.au;  
mckellar@ozemail.com.au;  
bhjmckellar@mac.com



**Dewi Fortuna Anwar**  
Lembaga Ilmu Pengetahuan  
Indonesia  
(Indonesian Institute of Sciences)  
Sasana Widya Sarwono  
Jl. Jenderal Gatot Subroto No.10  
Jakarta 12710  
Tel. (+62 21) 5225711; 5251542  
Fax. (+62 21) 5225640  
E-mails: dewi004@lipi.go.id;  
dfanwar@yahoo.com



**Ali. A Moosavi-Movahedi**  
Institute of Biochemistry and  
Biophysics (IBB), University of  
Tehran  
Tel: (+982 1) 6409517  
Fax: (+982 1 ) 6404680  
Email: moosavi@ibb.ut.ac  
www.ibb.ut.ir/~moosavi



**Mingsarn Kaosa-Ard**  
Social Research Institute  
Chiang Mai University  
Chiang Mai, 50200 Thailand  
Tel: (+66 53) 892 353, 942 593  
Fax (+ 66 53) 892649, 942572  
Email: mingsam@chiangmai.  
ac.th



**Marshall Cyriacus Noble Jayasuriya**  
98/M/47, Scenic View,  
Kahantota Road,  
Malabe, Sri Lanka  
Tel: (+94 11) 2413335 / 2964170  
Fax: (+ 94 11) 2694754  
E-mail: nj8583@gmail.com



**Hong Kum LEE**  
Korea Polar Research Institute  
(KOPRI)  
Get-Pearl Tower, 7-50 Songdo-dong,  
Yeonsu-gu,  
Incheon 406-840,  
Republic of Korea  
Tel: +82 32 260 6001  
Fax: +82 32 260 6039  
E-mail: : hklee@kopri.re.kr



**Kan Zhang**  
Institute of Psychology  
CAS, 10-A, Da Tun Lu, Beijing,  
1001, China  
Tel: (+86 10) 64837096  
Fax: (+ 86 10) 64837182  
Email: zhangk@psych.ac.cn



**Jaime C. Montoya**  
Section of Infectious Diseases  
Department of Medicine  
UP-Philippine General Hospital  
Taft Avenue , Manila  
Tel : (632) 525-10-62  
Email: mnty\_jm@yahoo.com



**Motonori HOSHI**

The Open University of Japan  
Wakaba 2 - 11, Mihama-ku  
Chiba 26-8586, Japan  
Voice/Fax: +81-43-298-4184  
Email: hoshim@u-air.ac.jp



*Ex-Officio:*

**Muhamad Awang**

SEGi College (M) Sdn Bhd  
No.9, Jalan Teknologi, Taman Sains  
Selangor  
Kota Damansara PJU 5  
47810 Petaling Jaya, Selangor  
Tel : 03 – 6145 2777  
Fax : 03 – 6145 2622  
E-mail : muhamad@segi.edu.my



*Ex-Officio:*

**Mohd Nordin Hasan**

International Council for Science  
(ICSU)  
Regional Office for Asia & Pacific  
902-4, Jalan Tun Ismail,  
50480 Kuala Lumpur, Malaysia  
Tel: 603-26984192  
Fax: 603-26917961  
Email: nordin.hasan@icsu-asia-  
pacific.org



*Ex Officio:*

**Zakri Abdul Hamid**

Science Advisor to the Government of  
Malaysia Science Advisor's Office  
Level 4, Blok C4,  
Complex C, Ministry of Science,  
Technology & Innovation  
62662 PUTRAJAYA  
Tel : 03-88858199  
Mobile : 013-2762100  
Email: zakri@mosti.gov.my



*Ex Officio:*

**Patricia Ocampo-Thomason**

Science Officer  
( Regional Offices Liaison )  
International Council for Science  
(ICSU)  
5, rue Auguste Vacquerie  
FR-75016 Paris , France  
Tel. +33 1 45 25 91 04  
Fax. + 33 1 42 88 94 31  
Email: patricia@icsu.org

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# Secretariat

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Director:

**Mohd Nordin Hasan FASc**

(nordin.hasan@icsu-asia-pacific.org)

Science Officer (Programme):

**Nor Zaneedarwaty Norman**

(zaneeda.norman@icsu-asia-pacific.org)

Administrative Officer:

**Mohd Hizamddin Jaafar**

(hizam.jaafar@icsu-asia-pacific.org)



# Financial Summary

INCOME	MYR	EUR
<b><u>Annual Grants</u></b>		
Malaysian Government	498,000.00	113,439.64
ICSU - PARIS	153,780.00	35,000.00
<b>Sub Total</b>	<b>651,780.00</b>	<b>148,439.64</b>
<b><u>Other Income</u></b>		
Balance b/f 2008	19,430.53	4,437.47
Reimbursement	9,998.60	2,277.58
<b>Sub Total</b>	<b>29,429.13</b>	<b>6,715.05</b>
<b>TOTAL INCOME</b>	<b>681,209.13</b>	<b>155,154.69</b>
<b><u>EXPENDITURE</u></b>		
Emolument	232,533.16	52,968.83
Communication & Utilities	36,347.22	8,279.55
Supplies/other materials	3,716.30	846.54
Maintenance/repairs	1,236.00	281.55
Services	14,953.50	3,406.26
Meetings/Consultations & Activities expenditure	314,330.82	71,601.55
<b>Total Expenditure</b>	<b>603,117.00</b>	<b>137,384.29</b>
<b>BALANCE C/FTO 2010</b>	<b>78,092.13</b>	<b>17,770.40</b>
EUR1.00 : RM4.39		

# Membership of ICSU

National Members

Scientific Unions

Scientific Associates

Benefits of Joining ICSU



# National Members

ICSU's National Members provide input, from a national, multidisciplinary perspective, on priority areas for future ICSU activities. They also play an important role in facilitating links with national governments and science agencies. The majority of ICSU National Members are scientific academies, although some are national funding agencies or other nationally representative science bodies. The following list includes full Members, Scientific Associates\*, and Observers\*\*. Pacific Islands includes Cook Islands, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu and Vanuatu.

Argentina	Finland	Malawi	Singapore
Armenia	France	Malaysia	Slovak Republic
Australia	Georgia*	Mauritius	South Africa
Austria	Germany	Mexico	Spain
Azerbaijan**	Ghana	Moldova**	Sri Lanka
Bangladesh	Greece	Monaco	Sudan
Belarus**	Guatemala*	Mongolia	Swaziland
Belgium	Hungary	Montenegro	Sweden
Bolivia	India	Morocco	Switzerland
Botswana	Indonesia	Mozambique	Tajikistan**
Brazil	Iran	Nepal	Tanzania
Bulgaria	Iraq	Netherlands	Thailand
Burkina Faso*	Ireland	New Zealand	Togo
Cameroon	Israel	Nigeria	Tunisia*
Canada	Italy	Norway	Turkey
Caribbean*	Jamaica	Pacific Islands****	Uganda*
Chile	Japan	Pakistan	Ukraine
China: CAST	Jordan*	Panama	United Kingdom
China: Taipei	Kazakhstan*	Peru	USA
Colombia	Kenya	Philippines	Uruguay**
Costa Rica**	Korea (DPR)**	Poland	Uzbekistan
Côte d'Ivoire*	Korea, Rep. of	Portugal	Vatican City State
Croatia	Latvia	Romania	Venezuela**
Cuba	Lebanon	Russia	Vietnam**
Czech Republic	Lesotho	Rwanda	Zambia
Denmark	Lithuania	Saudi Arabia	Zimbabwe
Egypt	Luxembourg	Senegal	
Estonia	Macedonia	Serbia	
Ethiopia	Madagascar*	Seychelles	

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# Scientific Unions

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International Union for Quaternary Research (NQUA)  
International Union of Anthropological and Ethnological Sciences (UAES)  
International Union of Biochemistry and Molecular Biology (IUBMB)  
International Union of Biological Sciences (IUBS)  
International Union of Crystallography (IUCr)  
International Union of Food Science and Technology (IUFoST)  
International Union of Forest Organisations (IUFRO)  
International Union of Geodesy & Geophysics (IUGG)  
International Union of Geological Sciences (IUGS)  
International Union of the History and Philosophy of Science (IUHPS)  
International Union of Materials Research Societies (IUMRS)  
International Union of Microbiological Societies (IUMS)  
International Union of Nutritional Sciences (IUNS)  
International Union of Pharmacology (IUPHAR)  
International Union of Physiological Sciences (IUPS)  
International Union of Psychological Sciences (IUPsyS)  
International Union of Pure and Applied Chemistry (IUPAC)  
International Union of Pure and Applied Physics (IUPAP)  
International Union of Soil Sciences (IUSS)  
International Union of Theoretical and Applied Mechanics (IUTAM)  
International Union of Toxicology (IUTOX)  
Union Radio Scientifique International (URSI)

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# Scientific Associates

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Academia de Ciencias de América Latina  
Federation of Asian Scientific Academies and Societies  
Federation Internationale des Geometres  
International Association of Hydraulic Engineering and Research  
International Arctic Science Committee  
International Commission for Acoustics  
International Cartographic Association  
International Council for Laboratory Animal Science  
International Commission for Optics  
International Council for Scientific and Technical Information  
International Federation for Information Processing  
International Federation of Library Associations and Institutions  
International Foundation for Science  
International Federation of Societies for Microscopy  
International Institute for Applied System Analysis  
International Union for Vacuum Science, Technique and Applications  
International Water Association  
Pacific Science Association  
The Academy of Sciences for the Developing World

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# Benefits of Joining ICSU

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ICSU is the major worldwide network of scientists in all disciplines. While all scientists belong to their own small network of scientists in their particular discipline, those working in an ICSU National Member or ICSU Associate can access the much larger and more diverse ICSU network to their advantage.

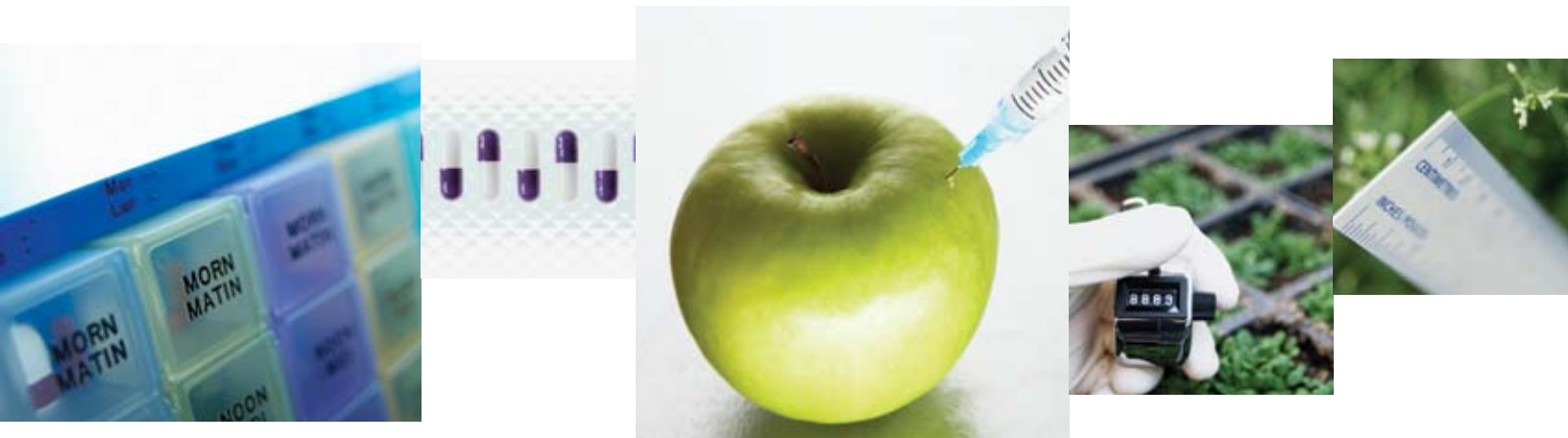
The immediate access is through the ICSU website, and its Member Zone, and through ICSU publications: the regular electronic newsletter ICSU Insight, Annual Reports, and many special purpose publications such as the series produced in connection with the World Summit on Sustainable Development (WSSD). Through this members learn what is happening globally in science, how this science is being used for the benefit of society in general, and how they can use this science for the benefit of their own society.

ICSU members have the opportunity, particularly through providing input to the ICSU strategic plan, and through participating in the ICSU General Assembly, to influence the activities of ICSU and make sure they are relevant to their own circumstances. ICSU is now constructing its 2012-2017 strategic plan, so now is an opportune time to become a member. The next General Assembly will meet in Rome in 2011, and meets every three years. Full National Members have the right to vote at the General Assembly, whereas Associates may attend but cannot vote.

In addition, National members in the Asia-Pacific region can build their networks and exert their influence through the Regional Committee for Asia and the Pacific, and by participating in the regional consultations held every two years.

Information about the full range of ICSU activities, and the various types of membership, is available by visiting its website: [www.icsu.org](http://www.icsu.org).





# About ICSU ROAP

This Regional Office was inaugurated on the 19 September by the then Deputy Prime Minister of Malaysia, Y.A.B. Dato' Seri Najib Tun Abdul Razak. The new office will promote the development of science throughout Asia and the Pacific and help strengthen the voice of developing country scientist in this region. It will also ensure that its scientists become involved in those aspects of the ICSU 2006-2011 Strategic Plan that are especially relevant for Asia and the Pacific.

## Mission Statement

ICSU mobilizes the knowledge and resources of the international science community for the benefit of society, to:

- **Identify and address major issues of importance to science and society**
- **Facilitate interaction amongst scientists across all disciplines and from all countries**
- **Promote the participation of all scientists in the international scientific endeavour, regardless of race, citizenship, language, political stance or gender**
- **Provide independent, authoritative advice to stimulate constructive dialogue between the scientific community and governments, civil society, and the private sector**



ICSU Regional Office for Asia & Pacific,  
902-4, Jalan Tun Ismail,  
50480 Kuala Lumpur, MALAYSIA,  
Tel | +603 26984192 • Fax | +603 26917961

**[www.icsu-asia-pacific.org](http://www.icsu-asia-pacific.org)**